

Appl. No. 10/076,330
Amendment and/or Response
Reply to Office action of 4 April 2006

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Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A video transmission system for transmitting an output video signal over a communication channel on the basis of a group of input video signals, said system comprising:
 a first group of coding means for supplying encoder that is configured to provide a plurality of coded video signals, each coded video signal corresponding to from each of a plurality of input video signals,
characterized in that it also comprises:
[I-1] a second group of coding means for supplying encoder that is configured to provide a plurality of encoded sub-sampled video signals, each coded sub-sampled video signal corresponding to from each input video signal,
[I-2] association means for associating with each sub-sampled video signal a combiner that is configured to associate a descriptor characterizing the that characterizes each corresponding input video signal to each coded sub-sampled video signal,
[I-3] multiplexing means for multiplexing a multiplexer that is configured to multiplex the group of said plurality of coded video signals with the group of said plurality of coded sub-sampled video signals associated with their descriptors, this multiplexing operation supplying said to provide the output video signal such that each coded video signal and each coded sub-sampled video signal is independently accessible in the output video signal.

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2. (Currently amended) A video transmission system for transmitting an output video signal over a communication channel on the basis of an input video signal, said input video signal resulting from the multiplexing of a group of coded video signals and said system comprising:

means for demultiplexing so as to generate the said a demultiplexer that is configured to generate a plurality of coded video signals from an input video signal, characterized in that it also comprises:

[-] transcoding means for supplying a a transcoder that is configured to supply a plurality of coded sub-sampled video signals, each coded sub-sampled video signal from corresponding to each coded video signal,

[-] association means for associating with each sub-sampled video signal a combiner that is configured to associate a descriptor characterizing that characterizes the corresponding coded video signal with each coded sub-sampled video signal,

[-] multiplexing means for multiplexing said a multiplexer that is configured to multiplex the input video signal with the group of said plurality of coded sub-sampled video signals associated with their descriptors, this multiplexing operation supplying said to provide the output video signal such that each coded video signal and each sub-sampled video signal is independently accessible in the output video signal.

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3. (Currently amended) A video processing system designed for receiving via a communication channel an input video signal resulting from the multiplexing of a group of coded video signals, said system comprising:

a demultiplexer that is configured to demultiplex an input video signal to provide demultiplexing means for generating said a plurality of coded video signals and a plurality of coded sub-sampled video signals corresponding to the plurality of coded video signals.

a decoder that is configured to decode decoding means for decoding said the coded video signals and generating to provide decoded video signals that can be displayed on a screen.

characterized in that it also comprises:

[-] means for receiving an auxiliary signal resulting from the multiplexing of a group of sub-sampled video signals, each sub-sampled video signal resulting from the sub-sampling of a coded video signal, a data descriptor being associated with each coded sub-sampled signal in order to characterize each coded sub-sampled signal it by means of a group of fields,

[-] means for creating a database in which that is configured to store fields of said the data descriptors and to identify a each coded sub-sampled video signal based on the data descriptor by means of a request referring to a group of fields, and

[-] means for creating an image compositor that is configured to create a mosaic from a limited select group of sub-sampled video signals selected from the said group plurality of coded sub-sampled video signals based on a user request and the data descriptors, said selected sub-sampled video signals corresponding to the sub-sampled video signals where the fields of the associated descriptors are the result of a user request sent to said database.

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4. (Currently amended) A-The video processing system as claimed in of claim 3, characterized in that the means for creating said mosaic wherein the image compositor includes:

[-] means for demultiplexing the said auxiliary signal in order an other demultiplexer that is configured to generate the said selected coded sub-sampled video signals,

[-] means for decoding in order an other decoder that is configured to generate a decoded sub-sampled video signal from each selected coded sub-sampled video signal, and

[-] a video composition means for composing said composer that is configured to compose the mosaic from the decoded sub-sampled video signals, said the mosaic being capable of being displayed on said the screen.

5. (Currently amended) A-The video processing system as claimed in of claim 4, characterized in that it comprises including a request generator for generating said user request, said user request originating from the that is configured to provide the user request based on a selection by a user of a group of fields from a menu displayed on the said screen.

6. (Currently amended) A-The video processing system as claimed in of claim 4, characterized in that that wherein the user request originates from the content of a user profile comprising a group of fields.

7. (Currently amended) A-The video processing system as claimed in of claim 4, characterized in that it comprises graphical selection means for selecting said limited including a graphic interface that facilitates selection of the select group of sub-sampled video signals from said the group of sub-sampled video signals displayed on said the screen.

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8. (Currently amended) A the video processing system as claimed in of claim 5, characterized in that it comprises means for including a user interface that facilitates selecting a sub-sampled video signal composing said of the displayed mosaic displayed in order to allow the to effect a full-screen display of said the corresponding decoded video signal.

9. (Currently amended) A receiver for a television set comprising a the video processing system as claimed in of claim 3.

10. (Currently amended) A digital signal composed of comprising:
____ a group-plurality of primary video signals coded in accordance with the an MPEG-2 standard, characterized in that it also comprises
____ a group-plurality of secondary video signals coded in accordance with the an MPEG-4 standard, each secondary video signal being obtained successively by means of sub-sampling of a and encoding each primary video signal and subsequent encoding in accordance with the MPEG-4 standard, each MPEG-4 video signal being associated with, and
____ a descriptor corresponding to each secondary signal characterizing the corresponding primary video signal.

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11. (Currently amended) A video transmission procedure for transmitting an output video signal over a communication channel from a group of input video signals, said procedure method comprising:

_____ a first coding step in order to supplying a plurality of coded video signals from each a plurality of input video signals, characterized in that it also comprises:

[[[-]]] a second coding step for supplying a plurality of coded sub-sampled video signals, each sub-sampled video signal corresponding to from each input video signal,

[[[-]]] an association step for associating with each sub-sampled video signal a descriptor characterizing the corresponding input video signal with each coded sub-sampled video signal,

[[[-]]] a multiplexing step for multiplexing the group of said plurality of coded video signals with the group of said plurality of coded sub-sampled video signals associated with their additional data, this multiplexing operation supplying said to provide an output video signal.

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~~12. (Currently amended) A video transmission method comprising procedure for transmitting an output video signal over a communication channel from an input video signal, said input video signal resulting from the multiplexing of a group of coded video signals, said system comprising a demultiplexing step in order to generate said coded video signals, characterized in that it also comprises:~~

demultiplexing an input video signal to provide a plurality of coded video signals.

~~[-] a transcoding step for supplying a coded sub-sampled video signal from each coded video signal,~~

~~[-] an association step for associating with each sub-sampled video signal a descriptor characterizing the corresponding coded video signal with each coded sub-sampled video signal,~~

~~[-] a multiplexing step for multiplexing said the input video signal with the group of said plurality of coded sub-sampled video signals associated with their descriptors, this multiplexing operation supplying said to provide an output video signal.~~

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13. (Currently amended) A video processing procedure designed for receiving an input video signal resulting from the multiplexing of a group of coded video signals, said procedure comprising a demultiplexing step for method including:
generating the said a plurality of coded video signals from an input video signal, and a decoding step for
decoding said the coded video signals and generating to provide decoded video signals that can be displayed for display on a screen,
characterized in that it also comprises:
[I-] a step for receiving an auxiliary signal resulting from the multiplexing of a group generating a plurality of coded sub-sampled video signals from the input video signal, each coded sub-sampled video signal resulting from the corresponding to a sub-sampling of a each coded video signal, a data descriptor being associated with each sub-sampled signal in order to characterize it by means of a group of fields that characterizes the coded video signal,
[I-] a step for creating a database in which to store the fields of said data descriptors and identify a the corresponding coded sub-sampled video signal by means of a request referring to a group of fields,
[I-] a step for creating a mosaic from a limited select group of sub-sampled video signals selected from said group of the plurality of coded sub-sampled video signals based on the data descriptors and a user request, said selected sub-sampled video signals corresponding to those sub-sampled video signals for which the fields of the associated descriptors are the result of a user request sent to said database.

14. (Currently amended) A computer program product for a video transmission system, said computer program comprising a sequence of program code instructions for executing the steps of the procedure as claimed in claim 11 if said that is configured to execute the method of claim 11 when the program is executed by a signal processor implemented in said a video transmission system.

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18. (Currently amended) A computer program product for a video transmission system, ~~said computer program comprising a sequence of program code instructions for executing the steps of the procedure as claimed in claim 12 if said that is configured to execute the method of claim 15~~ when the program is executed by a signal processor implemented in ~~said a~~ video transmission system.

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18. (Currently amended) A computer program product for a video processing system, ~~said computer program comprising a sequence of program code instructions for executing the steps of the procedure as claimed in claim 13 if said that is configured to execute the method of claim 18~~ when the program is executed by a signal processor implemented in ~~said a~~ video processing system.

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17. (New) The video processing system of claim 6, including a user interface that facilitates selecting a sub-sampled video signal of the displayed mosaic to effect a full-screen display of the corresponding decoded video signal.

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18. (New) The video processing system of claim 7, including a user interface that facilitates selecting a sub-sampled video signal of the displayed mosaic to effect a full-screen display of the corresponding decoded video signal.